



PETRA CLAD GS
advanced coating systems



HEAVY DUTY EPOXY OVERLAYMENT

GENERAL PRODUCT DESCRIPTION

Petra Clad GS is a 1/4" heavy duty flooring system comprised of three products, Petra Prime, GS Clad heavy duty topping, and GS Sealer. The Petra Clad system has excellent abrasion and impact resistance and will provide a long lasting, easily maintained floor. Petra-Clad is designed for environments with minimal chemical exposure.

Petra Prime is a penetrating, two component epoxy primer. Petra-Clad GS is a three component epoxy mortar for trowel application. It consists of epoxy resin, amine curing agent, and a special aggregate blend. GS Sealer is a two component epoxy-polyamide which provides a blush-free orange-peel finish. Xtra Kote TC provides improved color and gloss retention. TerraSeal provides a smooth, high gloss finish. All products are 100% solids.

Advantages:

- VOC Compliant - 100% Solids
- High Compressive strength - Resist heavy loads
- Seamless flooring system - Optional cove base
- Essentially odorless
- Four times harder than standard concrete
- Withstands heavy forklift traffic
- Able to be applied over damp concrete
- Can be applied over ten day old concrete

APPLICATION

- Manufacturing Floors
- Aisle Ways
- Aerospace
- Production Areas
- Food Preparation
- Chemical Flooring
- Waste Water Treatment
- Loading Docks

PHYSICAL PROPERTIES

PROPERTY	VALUE	REFERENCE
Compressive Strength	11,500 psi	ASTM D 695
Flexural Strength	4,100 psi	ASTM D 790
Tensile Strength	2,200 psi	ASTM D 307
Bond to Concrete	350 psi concrete fails at this point	ASTM D 4541
Coefficient of Friction	6 minimum	ASTM D 2047
Hardness, Shore D	84	ASTM D 2240

CONCRETE PREPARATION (CONT.)

Mechanical methods are preferred for preparing concrete prior to coating application. Shot-blasting, diamond grinding, scarifying, and scabbling are all acceptable methods. The concrete profile should approximate 40-60 grit sandpaper after preparation.

MIXING

The mix ratio of Petra Clad GS is 6 to 1. That is, six parts of A - resin, to one of part B - hardener. Mix the following with a drill and jiffy mixer.

1. Pour 6 quarts of part A into a five gallon bucket.
2. Add one quart of part B and mix for another 30-45 second.
3. Immediately pour the activated product into a bucket mixer and mix in 50 lbs. silica and mix for 1-2 minutes until uniform.

COLORS

Petra Clad GS is available in the following colors: Black, white, light gray, medium gray, dark gray, light beige, dark beige, sand beige, safety red, tile red, pastel blue, light brown, and safety yellow. Other colors are available at an additional charge.

PACKAGING

Petra Clad GS is available in two different kit sizes:

	Part A	Part B
7 Gallon Kit	6 gal.	1 gal.
14 Gallon Kit	12 gal.	2 gal.

APPLICATIONS PROCESS

Immediately pour activated product into a screed box. Pull the box in a straight line across the floor. Always apply Petra-Clad GS over a wet coat of PT Primer to ensure good adhesion and strength.

TROWELING

Trowel the material with a four-blade power trowel, passing over the material in two or three even, sweeping motions. Do not over trowel or allow the trowel to remain in any area for more than a few seconds. Optional Glaze Coat:

1. Xtra Kote TC or Xtra Kote LS for optimal color stability, may be used as glaze coat.
2. Mix three gallons of resin at a time using above mixing instructions.
3. Immediately pour out on unglazed surface in a ribbon, walking and pouring at the same time until bucket is empty.
4. Using a window squeegee on a pole, pull resin tightly and uniformly over surface.
5. Using a 3/8" paint roller with phenolic core, roll glaze coat forward and backward.
6. Lastly, backroll from left to right (perpendicular to first).

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COVERAGE

Standard nominal floor thicknesses are: 45-50 mil, 1/8", 3/16" and 1/4". Use chart below for determining required gallons.

Thickness:	Gallons in 1 S/F	Gallon in 100 S/F
3/16"	0.0225	2.25
1/4"	0.03	3.00

Note: The above guidelines are for an unglazed (full broadcast) anti-slip surface. A standard glaze coat over an unglazed (30-40 mesh silica) surface requires 100 S/F to the gallon (or .01 gallon per S/F).

CONCRETE PREPARATION

Before the coating is applied, the concrete must be:

- Clean – Contaminants removed
- Profiled – Surface etched
- Sound – Cracks repaired

CLEANUP

Petra Clad GS while in a liquid state may be cleaned up with water and degreaser. Otherwise a strong solvent may be required while Petra Clad GS is setting up.

WARRANTY

Petra Industrial Polymers products are warranted for one year after date of application. Please refer to the Petra Industrial Polymer's Limited Material Warranty for additional clarification.

SAFETY

Consult Petra Clad GS material safety data sheet. Avoid Petra Clad GS contact with skin. Some individuals may be allergic to epoxy.



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